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New Patent Claims

1. An at least dual-channel homogeneous-redundancy-based electronic device (EG), preferably a dual-channel homogeneous-redundancy-based programmable logic circuit, wherein electronic device (EG) has at least one certified channel (A) and at least one non-certified channel (B), and certified channel (A) is a channel that is sufficiently free of systematic errors, and a queriable signal is provided for each channel (A, B), and when the signal is queried a first flag (T) denoting a certified channel (A) or a second flag (F) denoting a non-certified channel (B) is detectable, and the electronic device (EG) only starts to operate if the first flag (T) is detected at least once when the flags of the individual channels (A, B) are queried.
2. The electronic device according to Claim 1, characterized in that querying of the flags of the individual channels (A, B) is carried out in sequence.
3. The electronic device according to Claim 1 or 2, characterized in that the flag of the non-certified channel (B) can be switched over from the second flag (F) to the first flag (T) after a preassignable period of time during which no errors were detected.
4. A method for operating an at least dual-channel homogeneous-redundancy-based electronic device (EG), preferably a dual-channel homogeneous-redundancy-based programmable logic circuit, wherein the electronic device (EG) has at least one certified channel (A) and at least one non-certified channel (B), and certified channel (A) is a channel that is sufficiently free of systematic errors, and a queriable signal is provided for each channel (A, B), and when the signal is queried a first flag (T) denoting a certified channel (A) or a second flag (F) denoting a non-certified channel (B) is detected, and the electronic device (EG) only starts to operate if the first flag (T) is detected at least once

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when the flags of the individual channels (A, B) are queried.

5. The method according to Claim 4, characterized in that querying of flags of the individual channels (A, B) is carried out in sequence.
6. The method according to Claim 4 or 5, characterized in that the flag of the non-certified channel (B) can be switched over from the second flag (F) to the first flag (T) after a preassignable period of time during which no errors were detected.

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